

```
open.py > ...
1 def main():
2     open("/path/to/mars.jpg")
3
4 if __name__ == '__main__':
5     main()

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER: VARIABLES
Windows PowerShell
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Prueba la nueva tecnología PowerShell multiplataforma https://aka.ms/pscore6

PS C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas> python open.py
Traceback (most recent call last):
  File "C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas\open.py", line 5, in <module>
    main()
  File "C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas\open.py", line 2, in main
    open("/path/to/mars.jpg")
FileNotFoundError: [Errno 2] No such file or directory: '/path/to/mars.jpg'
PS C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas>
```

```
Windows PowerShell

Windows PowerShell
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Prueba la nueva tecnología PowerShell multiplataforma https://aka.ms/pscore6

PS C:\Users\Javier> python
Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> try:
...     open('config.txt')
... except FileNotFoundError:
...     print("Couldn't found the config.txt file!")
...
Couldn't found the config.txt file!
>>>
```

EXPLORER

CATAS

> Cata2

> config.txt

config.py

Módulo0Katas.ipynb

Módulo1Katas.ipynb

Módulo3Katas.ipynb

Módulo4Katas.ipynb

Módulo5Katas.ipynb

Módulo6Katas.ipynb

Módulo7Katas.ipynb

Módulo8Katas.ipynb

Módulo9Katas.ipynb

Módulo10Katas.ipynb

open.py

config.py > ...

1 def main():

2 try:

3 configuration = open('config.txt')

4 except FileNotFoundError:

5 print("Couldn't find the config.txt file!")

6

7

8 if __name__ == '__main__':

9 main()

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

JUPYTER: VARIABLES

Windows PowerShell

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Prueba la nueva tecnología PowerShell multiplataforma <https://aka.ms/pscore6>

PS C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas> python config.py

Traceback (most recent call last):

File "C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas\config.py", line 9, in <module>

main()

File "C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas\config.py", line 3, in main

configuration = open('config.txt')

PermissionError: [Errno 13] Permission denied: 'config.txt'

PS C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas>

Explorer (Ctrl+Shift+E) - 1 unsaved file

CATAS

> Cata2

config.py

Módulo0Katas.ipynb

Módulo1Katas.ipynb

Módulo3Katas.ipynb

Módulo4Katas.ipynb

Módulo5Katas.ipynb

Módulo6Katas.ipynb

Módulo7Katas.ipynb

Módulo8Katas.ipynb

Módulo9Katas.ipynb

Módulo10Katas.ipynb

open.py

config.py > ...

1 def main():

2 try:

3 configuration = open('config.txt')

4 except Exception:

5 print("Couldn't find the config.txt file!")

6

7

8 if __name__ == '__main__':

9 main()

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

JUPYTER: VARIABLES

Windows PowerShell

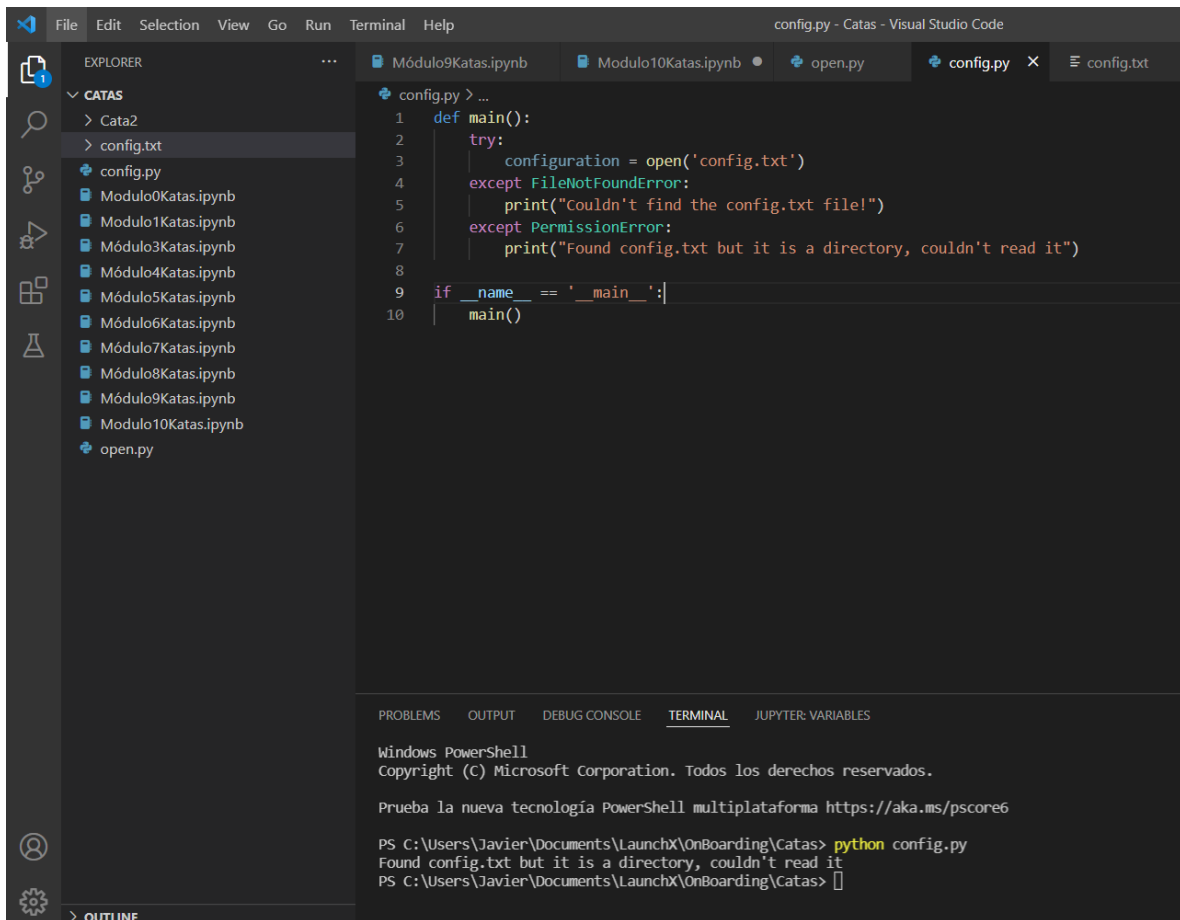
Copyright (C) Microsoft Corporation. Todos los derechos reservados.

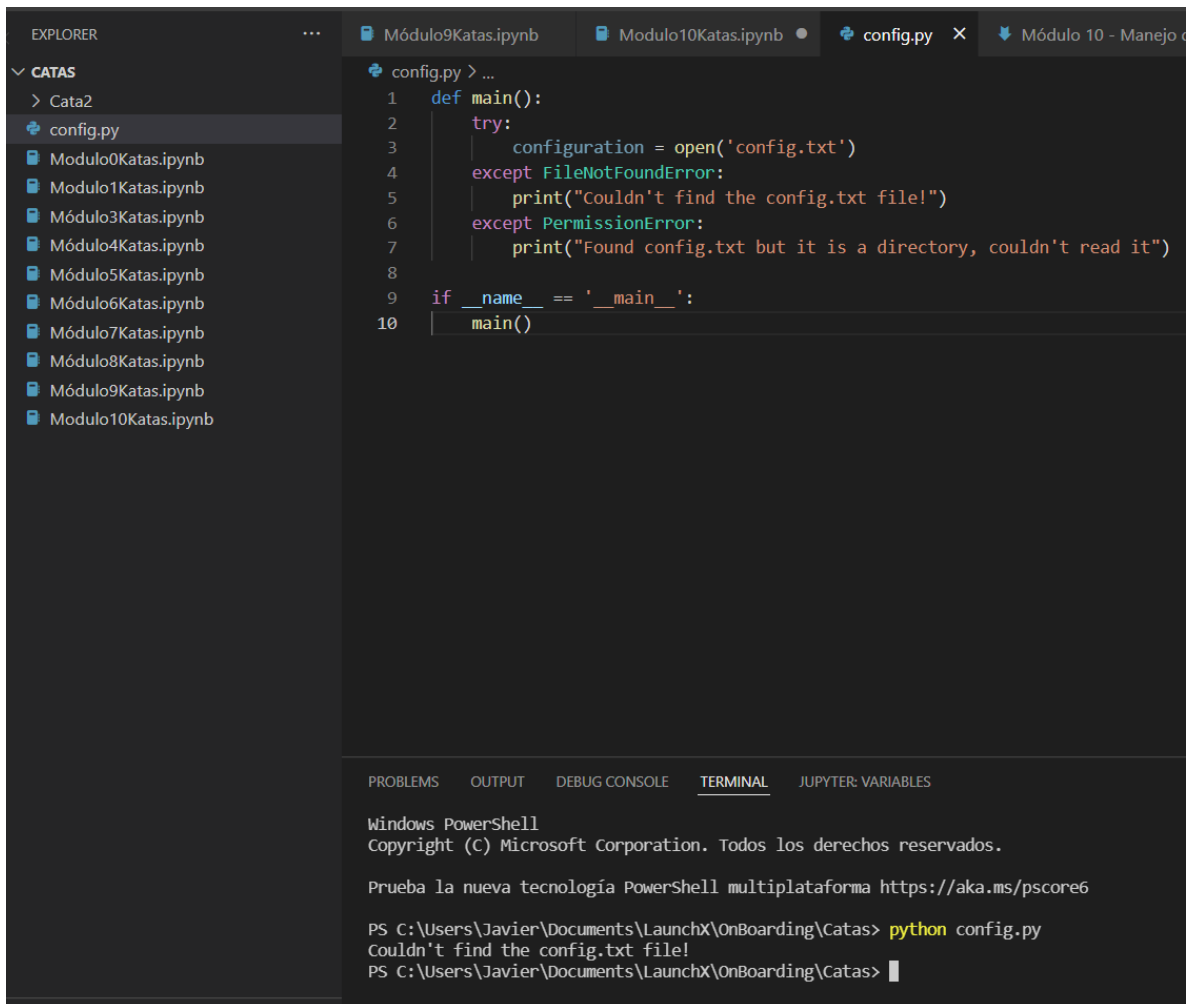
Prueba la nueva tecnología PowerShell multiplataforma <https://aka.ms/pscore6>

PS C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas> python config.py

Couldn't find the config.txt file!

PS C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas>





The screenshot shows a JupyterLab environment. On the left, the 'EXPLORER' sidebar displays a file tree under the name 'CATAS'. It includes a folder 'Cata2' and a file 'config.py'. Below these are several IPython notebooks named 'Modulo0Katas.ipynb' through 'Modulo10Katas.ipynb'. The central pane shows the 'config.py' file open in a code editor. The code defines a 'main()' function that attempts to open 'config.txt', handling 'FileNotFoundError' and 'PermissionError' exceptions with specific print statements. The bottom pane is a terminal window titled 'TERMINAL' running a Windows PowerShell session. It shows the execution of 'python config.py' from the directory 'C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas', which results in the message 'Couldn't find the config.txt file!'.

```
EXPLORER
...
Módulo9Katas.ipynb
Modulo10Katas.ipynb
config.py
Módulo 10 - Manejo d

CATAS
  > Cata2
  config.py
  Modulo0Katas.ipynb
  Modulo1Katas.ipynb
  Módulo3Katas.ipynb
  Módulo4Katas.ipynb
  Módulo5Katas.ipynb
  Módulo6Katas.ipynb
  Módulo7Katas.ipynb
  Módulo8Katas.ipynb
  Módulo9Katas.ipynb
  Modulo10Katas.ipynb

config.py > ...
1 def main():
2     try:
3         configuration = open('config.txt')
4     except FileNotFoundError:
5         print("Couldn't find the config.txt file!")
6     except PermissionError:
7         print("Found config.txt but it is a directory, couldn't read it")
8
9 if __name__ == '__main__':
10     main()

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER VARIABLES

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Prueba la nueva tecnología PowerShell multiplataforma https://aka.ms/pscore6

PS C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas> python config.py
Couldn't find the config.txt file!
PS C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas>
```

```
>>> try:
...     open("mars.jpg")
... except FileNotFoundError as err:
...     print("got a problem trying to read the file:", err)
...
got a problem trying to read the file: [Errno 2] No such file or directory: 'mars.jpg'
>>>
```

```
>>> try:
...     open("config.txt")
... except OSError as err:
...     if err.errno == 2:
...         print("Couldn't find the config.txt file!")
...     elif err.errno == 13:
...         print("Found config.txt but couldn't read it")
...
Couldn't find the config.txt file!
>>>
```



```
def water_left(astronauts, water_left, days_left):  
    daily_usage = astronauts * 11  
    total_usage = daily_usage * days_left  
    total_water_left = water_left - total_usage  
    return f"Total water left after {days_left} days is: {total_water_left} liters"
```

```
water_left(5, 100, 2)
```

[7] ✓ 0.8s

... 'Total water left after 2 days is: -10 liters'

Módulo9Katas.ipynbModulo10Katas.ipynbconfig.pywaterLeft.py X Módulo 10 - Manejo de errores.md

waterLeft.py > ...

```
1 def water_left(astronauts, water_left, days_left):
2     daily_usage = astronauts * 11
3     total_usage = daily_usage * days_left
4     total_water_left = water_left - total_usage
5     if total_water_left < 0:
6         raise RuntimeError(f"There is not enough water for {astronauts} astronauts after {days_left} days!")
7     return f"Total water left after {days_left} days is: {total_water_left} liters"
8
9 def alert_navigation_system(err):
10     print("Exception - RuntimeError:",err)
11
12 try:
13     water_left(5, 100, 2)
14 except RuntimeError as err:
15     alert_navigation_system(err)
16
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER: VARIABLES

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Prueba la nueva tecnología PowerShell multiplataforma <https://aka.ms/pscore6>

PS C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas> python waterLeft.py
Exception - RuntimeError: There is not enough water for 5 astronauts after 2 days!
PS C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas>

```
Módulo9Katas.ipynb ×  Módulo10Katas.ipynb  config.py  waterLeft.py ×  Módulo 10 - Manejo de errores.md

waterLeft.py > ...
1 def water_left(astronauts, water_left, days_left):
2     daily_usage = astronauts * 11
3     total_usage = daily_usage * days_left
4     total_water_left = water_left - total_usage
5     if total_water_left < 0:
6         raise RuntimeError(f"There is not enough water for {astronauts} astronauts after {days_left} days!")
7     return f"Total water left after {days_left} days is: {total_water_left} liters"
8
9 water_left(5, 100, 2)

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  JUPYTER: VARIABLES

Prueba la nueva tecnología PowerShell multiplataforma https://aka.ms/pscore6

PS C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas> python waterLeft.py
Traceback (most recent call last):
  File "C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas\waterLeft.py", line 9, in <module>
    water_left(5, 100, 2)
  File "C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas\waterLeft.py", line 6, in water_left
    raise RuntimeError(f"There is not enough water for {astronauts} astronauts after {days_left} days!")
RuntimeError: There is not enough water for 5 astronauts after 2 days!
PS C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas> 
```

Módulo9Katas.ipynb Módulo10Katas.ipynb config.py waterLeft.py Módulo 10 - Manejo de errores.md

waterLeft.py > water_left

```
1 def water_left(astronauts, water_left, days_left):
2     daily_usage = astronauts * 11
3     total_usage = daily_usage * days_left
4     total_water_left = water_left - total_usage
5     if (total_water_left < 0):
6         err= f"There is not enough water for {astronauts} astronauts after {days_left} days!"
7         raise RuntimeError(err)
8     return f"Total water left after {days_left} days is: {total_water_left} liters"
9
10 def alert_navigation_system(err):
11     print(err)
12
13
14 try:
15     water_left(5, 100, 2)
16 except RuntimeError as err:
17     alert_navigation_system(err)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER: VARIABLES

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Prueba la nueva tecnología PowerShell multiplataforma <https://aka.ms/pscore6>

PS C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas> python waterLeft.py
There is not enough water for 5 astronauts after 2 days!
PS C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas> █

EXPLORER ... Módulo9Katas.ipynb Módulo10Katas.ipynb config.py waterLeft.py Módulo 10 - Manejo de errores.md

CATAS

> Cata2

config.py

Módulo0Katas.ipynb

Módulo1Katas.ipynb

Módulo3Katas.ipynb

Módulo4Katas.ipynb

Módulo5Katas.ipynb

Módulo6Katas.ipynb

Módulo7Katas.ipynb

Módulo8Katas.ipynb

Módulo9Katas.ipynb

Módulo10Katas.ipynb

waterLeft.py

waterLeft.py > ...

```
1 def water_left(astronauts, water_left, days_left):
2     daily_usage = astronauts * 11
3     total_usage = daily_usage * days_left
4     total_water_left = water_left - total_usage
5     if (total_water_left < 0):
6         err= f"There is not enough water for {astronauts} astronauts after {days_left} days!"
7         raise RuntimeError(err)
8     return f"Total water left after {days_left} days is: {total_water_left} liters"
9
10 def alert_navigation_system(err):
11     print(err)
12
13
14 try:
15     water_left(5, 100, None)
16 except RuntimeError as err:
17     alert_navigation_system(err)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER: VARIABLES

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Prueba la nueva tecnología PowerShell multiplataforma <https://aka.ms/pscore6>

PS C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas> python waterLeft.py
Traceback (most recent call last):
File "C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas\waterLeft.py", line 15, in <module>
 water_left(5, 100, None)
File "C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas\waterLeft.py", line 3, in water_left
 total_usage = daily_usage * days_left
TypeError: unsupported operand type(s) for *: 'int' and 'NoneType'
PS C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas> █

Módulo9Katas.ipynb Módulo10Katas.ipynb config.py waterLeft.py X Módulo 10 - Manejo de errores.md

waterLeft.py > ...
1 def water_left(astronauts, water_left, days_left):
2 for argument in [astronauts, water_left, days_left]:
3 try:
4 # If argument is an int, the following operation will work
5 argument / 10
6 except TypeError:
7 # TypeError will be raised only if it isn't the right type
8 # Raise the same exception but with a better error message
9 raise TypeError(f"All arguments must be of type int, but received: '{argument}'")
10 daily_usage = astronauts * 11
11 total_usage = daily_usage * days_left
12 total_water_left = water_left - total_usage
13 if total_water_left < 0:
14 raise RuntimeError(f"There is not enough water for {astronauts} astronauts after {days_left} days!")
15 return f"Total water left after {days_left} days is: {total_water_left} liters"
16
17 water_left("3", "200", None)
18

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER: VARIABLES

Prueba la nueva tecnología PowerShell multiplataforma <https://aka.ms/pscore6>

PS C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas> python waterLeft.py
Traceback (most recent call last):
 File "C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas\waterLeft.py", line 5, in water_left
 argument / 10
TypeError: unsupported operand type(s) for /: 'str' and 'int'

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
 File "C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas\waterLeft.py", line 17, in <module>
 water_left("3", "200", None)
 File "C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas\waterLeft.py", line 9, in water_left
 raise TypeError(f"All arguments must be of type int, but received: '{argument}'")
TypeError: All arguments must be of type int, but received: '3'
PS C:\Users\Javier\Documents\LaunchX\OnBoarding\Catas> █